

CHAPTER 58

UPGRADES OF EXISTING USTs

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5800 UST SYSTEM UPGRADES

5800.1 Not later than December 22, 1998, the owner or operator of each existing petroleum UST system, except heating oil USTs, shall have ensured that the UST system complies with one (1) of the following:

- (a) For UST systems installed before December 22, 1988, the upgrade requirements set forth in this chapter;
- (b) For UST systems installed after December 22, 1988 and prior to November 12, 1993, the federal mandatory new tank performance standards set forth in 40 CFR 280.20;
- (c) For UST systems installed after November 12, 1993, the new UST system performance standards set forth in Chapter 57; or
- (d) The permanent closure requirements set forth in Chapter 61, and
- (e) Applicable requirements for corrective action set forth in Chapter 62.

5800.2 No person shall deposit a regulated substance into an UST, except heating oil USTs, that has not been upgraded in accordance with §5800.1.

5800.3 Not later than December 22, 1994, the owner or operator of each existing hazardous substance UST system shall ensure that the UST system complies with one (1) of the following:

- (a) The new UST system performance standards set forth in Chapter 57 for hazardous substance UST systems; or
- (b) The permanent closure requirements set forth in Chapter 61, and
- (c) Applicable requirements for corrective action set forth in Chapter 62.

5801 TANK UPGRADES

- 5801.1 Steel tanks shall be upgraded in accordance with the requirements of this chapter. Owners or operators shall follow the manufacturer's specifications or established procedures and practices adopted by a nationally recognized association or an independent testing laboratory, specified by the Director pursuant to §§5506.1 and 5506.2.
- 5801.2 An underground storage tank may be upgraded by internal lining if the following requirements are met:
- (a) The interior of the tank is inspected and assessed to ensure that the tank is structurally sound prior to installing the internal lining in accordance with current practice recommended by the American Petroleum Institute ("API"); and
 - (b) The lining is installed in accordance with the requirements of §5902 of this chapter.
- 5801.3 Within ten (10) years after lining, and every five (5) years thereafter, the interior of the lined tank shall be inspected to ensure it is structurally sound, free of corrosion holes and that the lining is still performing in accordance with original design specifications.
- 5801.4 Tank linings that have lost adhesion, cracked, or otherwise fail to meet original design specifications shall be replaced unless the damaged lining may be repaired and restored to a level of performance in accordance with original design specifications.
- 5801.5 A tank may be upgraded by cathodic protection if the cathodic protection system meets the requirements of either §5701.2 (a) or (b) and §5701.3, and the integrity of the tank is ensured using one (1) of the following methods:
- (a) The interior of the tank is inspected and assessed to ensure that the tank is structurally sound and free of corrosion holes prior to installing the cathodic protection system; or
 - (b) The tank has been installed for less than ten (10) years and is monitored monthly for releases in accordance with §§6008 through 6012; or
 - (c) The tank has been installed for less than ten (10) years and is assessed for corrosion holes by conducting two (2) tank tightness tests that meet the requirements of §6007. The first tank tightness test shall be conducted prior to installing the cathodic protection system. The second tank tightness test shall be conducted between three (3) and six (6) months following the first operation of the cathodic protection system; or

- (d) The tank is assessed for corrosion holes by a method that is determined by the Director to prevent releases in a manner that is no less protective of human health and the environment than a system which complies with §§5801.5 (a) through (c) of this section.

5801.6 An underground storage tank may be upgraded by both internal lining and cathodic protection if the following requirements are met:

- (a) The lining is installed in accordance with the requirements of §5902; and
- (b) The cathodic protection system meets the requirements of either §5701.2 (a) or (b) and §5701.4.

5802 UPGRADING UST SYSTEM PIPING

5802.1 Metal piping that routinely contains regulated substances and is in contact with earthen materials shall be cathodically protected in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory, specified by the Director pursuant to §§5506.1 and 5506.2.

5802.2 Metal piping that routinely contains regulated substances and is in contact with earthen materials shall meet the requirements of either §5704.3(a) or (b) and §5704.4.

5802.3 Metal piping that routinely contains regulated substances and is in contact with earthen materials that does not meet the requirements of §§5802.1 and 5802.2, shall be replaced with new piping and satisfy the requirements of §5704.

5803 UPGRADING SPILL AND OVERFILL PREVENTION EQUIPMENT

5803.1 To prevent spilling and overfilling associated with product transfer to the UST system, all existing UST systems shall comply with new UST system spill and overfill prevention equipment requirements specified in §5705.

5804 TANK TIGHTNESS TESTING UPON UPGRADING

5804.1 Upon completion of an UST system upgrade and prior to placing the UST system in operation, a tank tightness test shall be performed on an UST system that satisfies the precision testing requirements set forth in §6007, unless the tank is upgraded by cathodic protection and the owner or operator complies with §5801.5 (c).